

Title (en)
Quartz glass burner

Title (de)
Quarzglasbrenner

Title (fr)
Brûleur à verre de silice

Publication
EP 2434217 A3 20130220 (EN)

Application
EP 11182582 A 20110923

Priority
JP 2010213648 A 20100924

Abstract (en)
[origin: EP2434217A2] The present invention provides a quartz glass burner that can enhance the heating power of flame working without unnecessarily increasing the flow of combustion gas and improve the deposition efficiency on depositing glass particles onto a porous glass preform. The quartz glass burner has a large diameter outer tube (20), and a plurality of small diameter inner tubes (10) enclosed in the outer tube, and a tip of the outer tube has a port defining member (30) defining the outer shape of a combustion gas ejecting port that ejects combustion gas, and the port defining member (30) protrudes from the inner circumference of the outer tube towards the center axis so as to block the outermost area including areas between the outer circumferences of a plurality of inner tubes forming the inner tube row and the inner circumference of the outer tube of the combustion gas flow path.

IPC 8 full level
F23D 99/00 (2010.01)

CPC (source: EP US)
C03B 19/1423 (2013.01 - EP US); **C03B 32/00** (2013.01 - EP US); **C03B 37/0142** (2013.01 - EP US); **F23D 91/02** (2015.07 - EP US); **C03B 2207/12** (2013.01 - EP US); **C03B 2207/14** (2013.01 - EP US); **C03B 2207/20** (2013.01 - EP US); **F23D 2900/21005** (2013.01 - EP US)

Citation (search report)

- [X] JP S6428239 A 19890130 - SHINETSU CHEMICAL CO, et al
- [X] JP S6467519 A 19890314 - SHINETSU SEKIEI YAMAGATA
- [A] US 2005132749 A1 20050623 - OTSUKA HISATOSHI [JP], et al
- [A] JP 2002356332 A 20021213 - TOSHIBA CERAMICS CO

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2434217 A2 20120328; EP 2434217 A3 20130220; EP 2434217 B1 20140625; CN 102442772 A 20120509; CN 102442772 B 20140709; EP 2860448 A1 20150415; EP 2860448 B1 20180606; JP 2012066971 A 20120405; JP 5234672 B2 20130710; US 2012073332 A1 20120329; US 8695380 B2 20140415

DOCDB simple family (application)
EP 11182582 A 20110923; CN 201110288304 A 20110923; EP 14161478 A 20110923; JP 2010213648 A 20100924; US 201113236280 A 20110919